

FUN & ENGAGING

MARVEL Math

PROBLEM SOLVING

Level 3

TEKS Aligned

EQUATION(S)

STRIP DIAGRAM

PROBLEM 5

Luis has 7 packages of swim caps for the swim team. Each package has 8 swim caps. The swim team has 48 members. How many swim caps will be left over after each member receives one swim cap?

MY WORK:

PROBLEM 5

Luis has 7 packages of swim caps for the swim team. Each package has 8 swim caps. The swim team has 48 members. How many swim caps will be left over after each member receives one swim cap?

EQUATIONS

STEP 1

$$7 \times 8 = 56$$

STEP 2

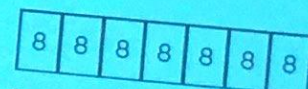
$$56 - 48 = 8$$

REASONABLE ESTIMATE

$$\begin{aligned} 7 \times 8 &= 56 \\ 48 &\text{ is close to } 50 \\ 56 - 50 &= 6 \end{aligned}$$

Answer should be close to 6.

STRIP DIAGRAM



48

WHAT'S INCLUDED?

- **8 Puzzles** (4 pieces each)
- **Student Recording Pages**
- **Detailed Teacher Key**
- **2 Versions:** Common Core Aligned & TEKS Aligned

INCLUDES BOTH

PROBLEM SOLVING

TEKS Aligned

My Work

Level 3

PROBLEM 5

Luis has 7 packages of swim caps for the swim team. Each package has 8 swim caps. The swim team has 48 members. How many swim caps will be left over after each member receives one swim cap?

EQUATION(S)

STRIP DIAGRAM

MY WORK:

US CARD

PROBLEM 5

Luis has 7 packages of swim caps for the swim team. Each package has 8 swim caps. The swim team has 48 members. How many swim caps will be left over after each member receives one swim cap?

EQUATIONS

STEP 1

$$7 \times 8 = 56$$

STEP 2

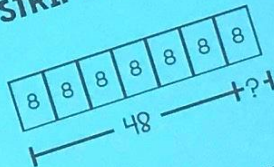
$$56 - 48 = 8$$

REASONABLE ESTIMATE

- $7 \times 8 = 56$
- 48 is close to 50
- $56 - 50 = 6$

My answer should be close to 6.

STRIP DIAGRAM



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PROBLEM 5

Luis has 7 packages of swim caps for the swim team. Each package has 8 swim caps. The swim team has 48 members. How many swim caps will be left over after each member receives one swim cap?

EQUATIONS

STEP 1

$$7 \times 8 = 56$$

STEP 2

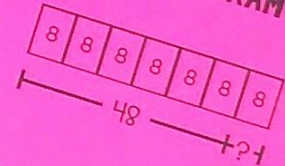
$$56 - 48 = 8$$

REASONABLE ESTIMATE

$8 \times 8 = 56$
close to 50
 $50 - 48 = 2$

should

STRIP DIAGRAM



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Puzzle Piece Version

Easy-Cut Version

VARIETY OF PROBLEM TYPES

PROBLEM SOLVING

Level 3

EQUATION(S)

My Work

PROBLEM 5

Luis has 7 packages of swim caps for the swim team. Each package has 8 swim caps. The swim team has 48 members. How many swim caps will be left over after each member receives one swim cap?

MY WORK:

SOLUTION:

PROBLEM 5

Bella is in charge of the 7th grade end of the year party. There are 48 trays of cookies to the party. She has 8 trays of cookies. How many cookies does Bella have left?

MY WORK:

PROBLEM 5

Luis has 7 packages of swim caps for the swim team. Each package has 8 swim caps. The swim team has 48 members. How many swim caps will be left over after each member receives one swim cap?

EQUATIONS

STEP 1

$$7 \times 8 = 56$$

STEP 2

$$56 - 48 = 8$$

REASONABLE ESTIMATE

- $7 \times 8 = 56$
- 48 is close to 50
- $56 - 50 = 6$

My answer should be close to 6.

STRIP DIAGRAM



———— 48 ———— + ? +

STUDENT RECORDING

PAGES: 2 Versions

PROBLEM SOLVING	
My Work	
Level 3	
PROBLEM 1 Bree has 54 flowers to place into vases. Bree has 9 vases that will each hold the same number of flowers. How many flowers will be placed in each vase?	PROBLEM 2 Micah has 54 rocks in his rock collection. He organized his rocks into 6 equal rows. How many rocks are in each row?
PUZZLE CARDS:	PUZZLE CARDS:
PROBLEM 3 Jacob made a rectangular mosaic with square inch tiles. His mosaic has 6 rows of tiles with 8 tiles in each row. What is the area of Jacob's mosaic?	PROBLEM 4 Rose has twice as many pencils as Ava. Ava has 6 pink and 8 purple pencils. How many pencils does Rose have?
PUZZLE CARDS:	PUZZLE CARDS:
PROBLEM 5 Luis has 7 packages of swim caps for the swim team. Each package has 8 swim caps. The swim team has 48 members. How many swim caps will be left over after each member receives one swim cap?	PROBLEM 6 Bella is in charge of the 3rd grade end of the year party. There are 7 classes going to the party. She has 8 trays of cookies. Each tray has 48 cookies. How many cookies does Bella have for the party?
PUZZLE CARDS:	PUZZLE CARDS:
PROBLEM 7 Andise and her 7 friends have 48 pieces of candy to share. How many pieces of candy will each of the 8 girls receive if the candy is separated equally?	PROBLEM 8 Max had 7 decks of cards. Each deck has 48 cards. He spilled his water and 8 cards were damaged and had to be thrown away. How many cards does Max have left?
PUZZLE CARDS:	PUZZLE CARDS:

PROBLEM SOLVING	
My Work	
Level 3	
PROBLEM 7 Andise and her 7 friends have 48 pieces of candy to share. How many pieces of candy will each of the 8 girls receive if the candy is separated equally?	EQUATION(S)
MY WORK:	
PROBLEM 5 Luis has 7 packages of swim caps for the swim team. Each package has 8 swim caps. The swim team has 48 members. How many swim caps will be left over?	EQUATION(S)
TRIP DIAGRAM	
BONUS CARD	
PROBLEM 3 Jacob made a rectangular mosaic with square inch tiles. His mosaic has 6 rows of tiles with 8 tiles in each row. What is the area of Jacob's mosaic?	EQUATION(S)
MY WORK:	
SOLUTION:	
PROBLEM 4 Rose has twice as many pencils as Ava. Ava has 6 pink and 8 purple pencils. How many pencils does Rose have?	EQUATION(S)
MY WORK:	
SOLUTION:	
PROBLEM 2 Micah has 54 rocks in his rock collection. He organized his rocks into 6 equal rows. How many rocks are in each row?	EQUATION(S)
MY WORK:	
SOLUTION:	
STRIP DIAGRAM	
BONUS CARD	

1 Page
Condensed
Version

Full Version

TEACHER KEY

PROBLEM SOLVING Level 3

My Work

PROBLEM 5
Luis has 7 packages of swim caps for the swim team. Each package has 8 swim caps. The swim team has 48 members. How many swim caps will be left over after each member receives one swim cap?

MY WORK:

EQUATION(S)

STRIP DIAGRAM

BONUS CARD

KEY

STEP 1 $7 \times 8 = 56$
STEP 2 $56 - 48 = 8$

STRIP DIAGRAM

BONUS CARD

- $7 \times 8 = 56$
- 48 is close to 50
- $56 - 50 = 6$

My answer should be close to 6.

EQUATION(S)

STRIP DIAGRAM

BONUS CARD

The number 7 in this problem is extra information.

PROBLEM 6
Bella is in charge of the 3rd grade end of the year party. There are 7 classes going to the party. She has 8 trays of cookies. Each tray has 48 cookies. How many cookies does Bella have for the party?

MY WORK:

EQUATION(S)

STRIP DIAGRAM

BONUS CARD

SOLUTION: 8 swim caps

SOLUTION: 384 cookies

SOLUTION:

PR

Luis has swim caps for the swim team. Each package has 8 swim caps. The swim team has 48 members. How many swim caps will be left over after each member receives one swim cap?

Q

$7 \times 8 = 56$

STEP 1 $56 - 48 = 8$

My answer should be close to 6.

SOLUTION:

2 Versions

Puzzles **1-4** are the **same** in both versions. Puzzles **5-8** use numbers that **align with** each set of **standards** for questions that involve multiplication.

TEKS

Includes **2x1**
Multiplication



Common Core

Includes **Multiples of 10's**
x 1 digit Multiplication

